

Module Name: Software for Network Services and Design

Module Acronym: SNS

Module Manager: Dr Miguel Rio

Course Summary:

This course will provide an introduction to Object Oriented Programming and the Java programming language. It will have a big emphasis on Network programming using the socket paradigm. Finally there will be an introduction to Software Engineering techniques and to UML

Learning Outcomes:

At the end of the course, students should be able to:

- Code simple programs in Java
- Build a client/server applications using TCP sockets
- Build UDP based socket programs
- Know the basic Software Engineering methods
- Know how to specify a distributed application in UML
- Know how to build an application for the Android platform

Course Content

- *Introduction to Java*
- *Introduction to the Java Class Library*
- *Socket Network Programming*
- *Advanced Network Programming*
- *Software Engineering Techniques*
- *UML – Unified Modelling Language*

Assessment:

Examination will by assignment

MSc Communications Programmes

Tutorials/Workshops:

About half of the course will take place in the Laboratory doing practical exercises

Tutorial will consist of a two hour session

Guest Speakers:

Dr Andrea Savigni, an IT consultant in the area of Software Engineering will deliver the last day of Lectures.